

NFPA DESIGNATION 704

HAZARD RATING	HEALTH	0
4=Extreme		
3=High	FIRE	1
2=Moderate		
1=Slight	REACTIVITY	0
0=Insignificant		
	SPECIFIC HAZARD	NONE



MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
 ADDRESS: 7910 Manchester Ave.
 St. Louis, Mo. 63143
 United States of America

CONTACT: Terry Heller
 EMERGENCY PHONE NO: 314-781-2105
 APPROVED BY: Terry Heller
 TITLE: Manager, Materials R/D
 DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: VGS20522 GEAR OIL

CHEMICAL FAMILY: PETROLEUM HYDROCARBONS AND ADDITIVES. CLASSIFICATION: PETROLEUM OIL N.D.S.
 D.O.T. SHIPPING CLASS: COMBUSTIBLE LIQUID. IDENTIFICATION NUMBER: UN1270

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	WT.%	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
MINERAL OIL	REFINED MINERAL OIL	64742-54-7	Unknown	5 (mist)	5 (mist)	N
MINERAL OIL	REFINED MINERAL OIL	64742-65-0	Unknown	5 (mist)	5 (mist)	N
ADDITIVES	Unknown	Unknown	< 3	NOT ESTABLISHED	NOT ESTABLISHED	N

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)-----0.896
 PERCENT VOLATILE BY WEIGHT-----<1%
 BOILING POINT-----UNKNOWN
 VAPOR PRESSURE (mm Hg)-----1mm Hg @ 77 F (25 C)
 VAPOR DENSITY (AIR=1)-----UNKNOWN
 EVAPORATION RATE-----NEGLECTIBLE
 SOLUBILITY IN WATER-----NEGLECTIBLE. MATERIAL IS COMPLETELY SOLUBLE IN COMMON HYDROCARBON OR CHLORINATED
 HYDROCARBON SOLVENTS SUCH AS MINERAL SPIRITS OR TRICHLOROETHANE.
 REACTIVITY IN WATER-----NOT REACTIVE
 APPEARANCE AND ODOR-----AMBER LIQUID.

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to Section 7

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS OF TRANSPORT AND STORAGE.
 POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
 INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDATION AGENTS.
 HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON, NITROGEN AND SULFUR FROM COMBUSTION.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

PRIMARY ROUTE(S) OF ENTRY ARE: INGESTION, INHALATION AND SKIN ABSORPTION. ABBREVIATIONS USED IN THE FOLLOWING SECTION.
 SKIN=SKIN CONTACT. EYE=EYE CONTACT. INHAL=INHALATION. INGEST=INGESTION.

MINERAL OIL: ACUTE: SKIN: May cause irritation. Predisposing factors: Individuals with sensitive skin or large amounts of body hair. Material is not sterile and may infect open cuts or sores. EYE: May cause irritation. INHAL: Coughing, sore throat, headache, chest pain and difficult breathing. Predisposing factors: Individuals with pre-existing respiratory impairments (such as emphysema) can display increased sensitivity to oil mist or vapors. INGEST: Loose bowel movements. Minute amounts of mineral oil aspirated into the lungs during ingestion may cause mild to severe lung injury. CHRONIC: SKIN: Prolonged or repeated skin contact can cause skin irritation or oil acne: inflammation and blackheads due to mechanical blockage of the pores. Material is potentially a skin sensitizer. Individuals can experience skin irritation after prolonged exposure. EYE: None known. INHAL: None known. INGEST: None known.

EMERGENCY FIRST AID

INHALATION: Remove to fresh air. If not breathing, begin mouth to mouth resuscitation. Seek medical attention.
 EYE CONTACT: Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. SKIN CONTACT: Wash hands with mild non-abrasive soap and water. INGESTION: Seek medical attention.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame. If stored outdoors, store so as to shed water.
 NORMAL USE: May cause skin irritation and/or defat the skin on prolonged or repeated contact. Practice good personal hygiene by washing hands several times each day. Launder contaminated clothing before reuse. Avoid wearing clothing soaked with fluid. Avoid prolonged inhalation of mist or vapors. Do not transfer to unlabeled containers. Do not reuse containers for other materials or purposes. Do not cut, braze, weld, solder, or pressurize container as doing so may cause container to EXPLODE, potentially causing serious injury or DEATH. FOR INDUSTRIAL USE ONLY. Not suitable for use in or around household or dwelling. All precautions detailed on the container label apply to partially full or empty containers. Do not attempt to clean as residue is difficult to remove. Containers should be disposed of in an environmentally safe manner and in accordance with applicable governmental regulations.
 STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Absorb on fire retardant absorbent. Gather and dispose of in accordance with applicable regulations. Notify Coast Guard if spill could reach any waterway (1-800-426-8802).
 WASTE DISPOSAL METHODS: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If use conditions give rise to excessive mist (greater than 5 mg/cu M) use a NIOSH approved respirator rated for mineral oil mist or forced ventilation to reduce mist exposure to well below TLV levels.
 VENTILATION-LOCAL: Normal. MECHANICAL: Required if use conditions give rise to levels greater than 5 mg/cu M.
 OTHER: No applicable information found.
 SKIN PROTECTION: Protective gloves (Neoprene or Plastic) should be used. Do not wear oil soaked clothing.
 EYE PROTECTION: Always wear NIOSH approved eye protection when working around or operating machinery.
 OTHER EQUIPMENT: Oil-impervious apron if desired.
 MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL: Same as for petroleum lubricating oil. Remove traces of material if soldering, welding, brazing, cutting or other process involving ignition sources to prevent a fire hazard.

SECTION 9 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT-----475 F (246 C) C.O.C.
 FLAMMABLE LIMITS--- LEL: Unknown UEL: Unknown
 EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.
 SPECIAL FIRE FIGHTING PROCEDURES: For fires in enclosed areas, firefighters must use self-contained breathing apparatus.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Sealed containers may explode if exposed to extreme heat.

NOTICE

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